+ F. 7

Fig. 1

ketones:

steroids:

15 R = H 16 R = Ac

19 R = H

20 R = Ac

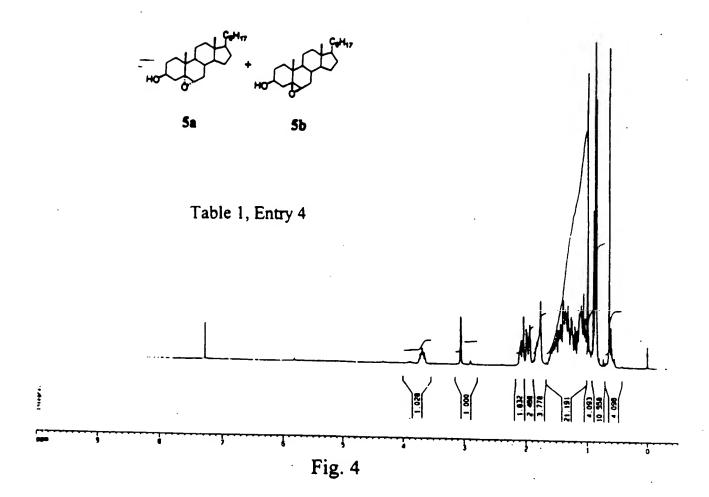
Fig. 2

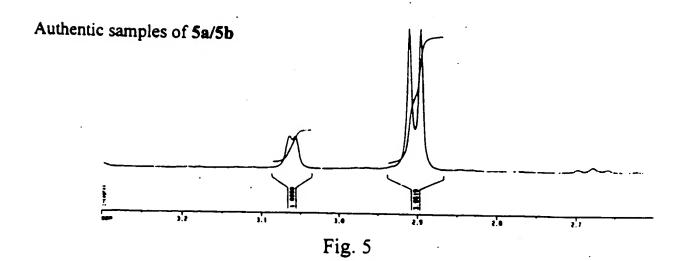
17 R^1 , $R^2 = O$ 18 R^1 , $R^2 = OCH_2CH_2O$

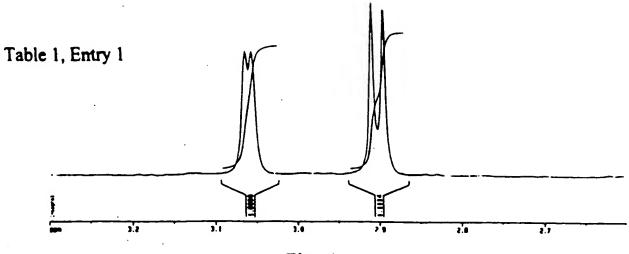
ketone
Oxone/NaHCO₃

$$R^3$$
 R^4
Oxone/NaHCO₃
 R^3
 R^4
 $R^$

Fig. 3









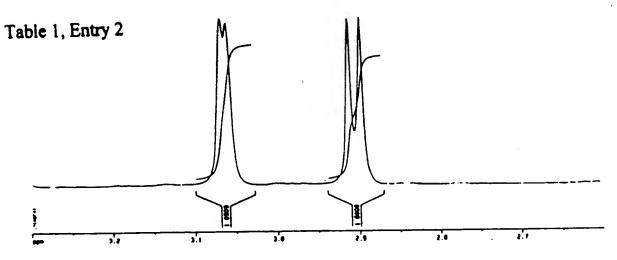
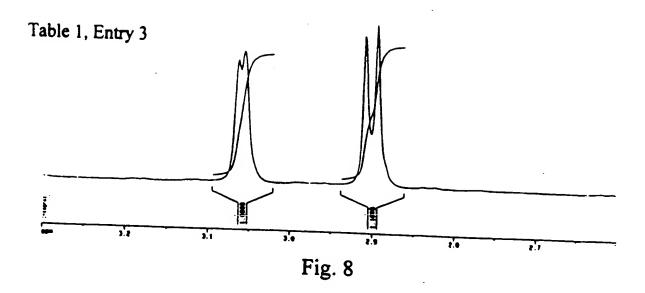
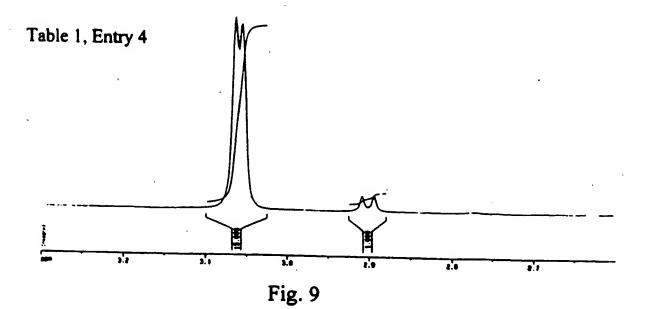
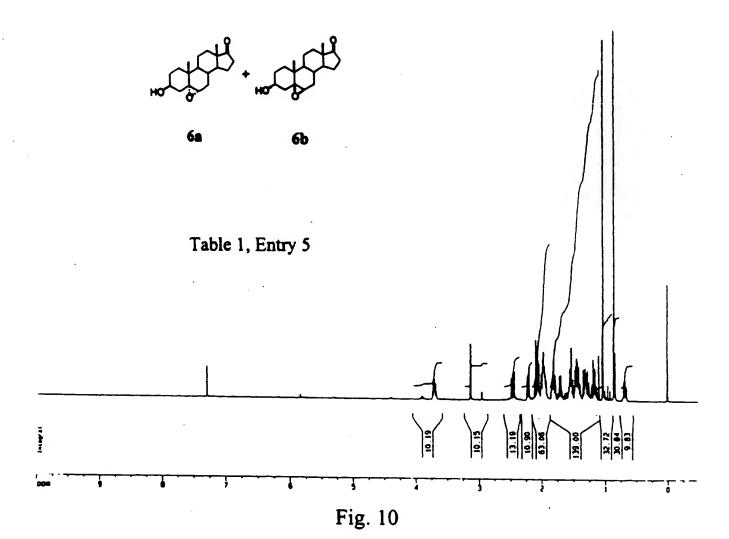
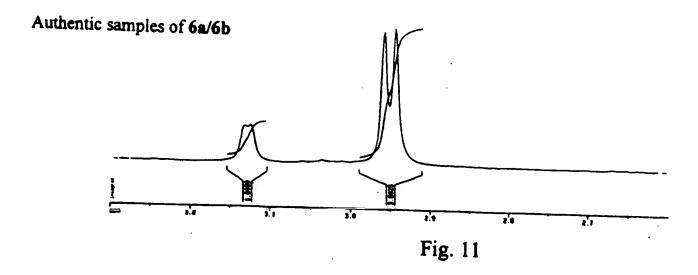


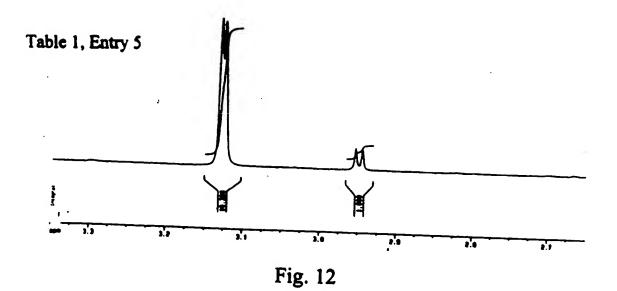
Fig. 7











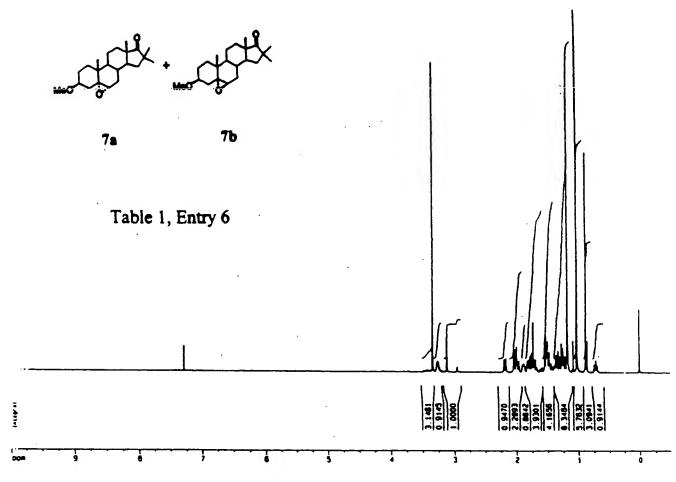


Fig. 13



Authentic samples of 7a/7b

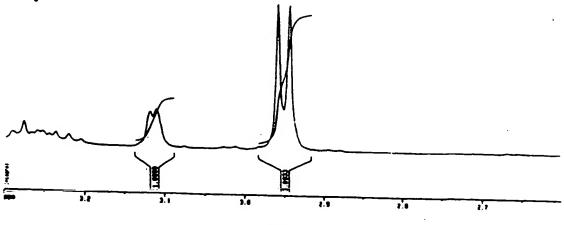


Fig. 14

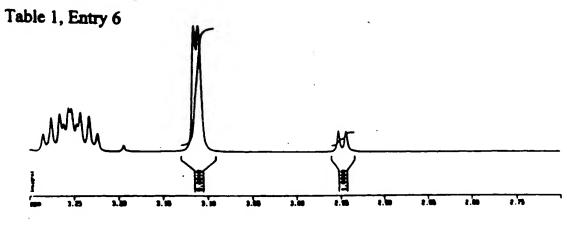
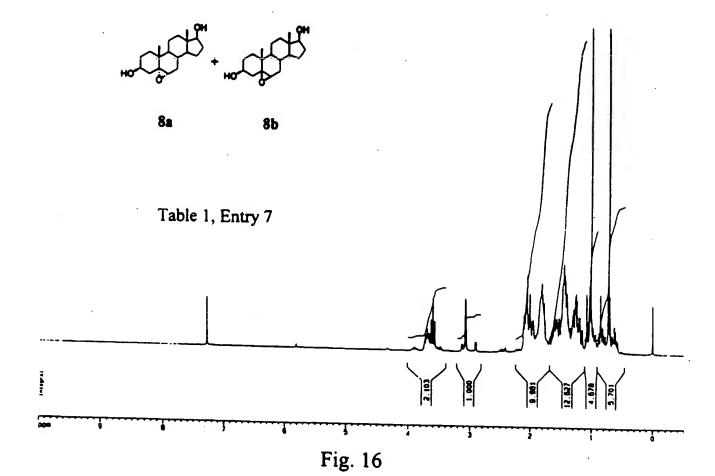
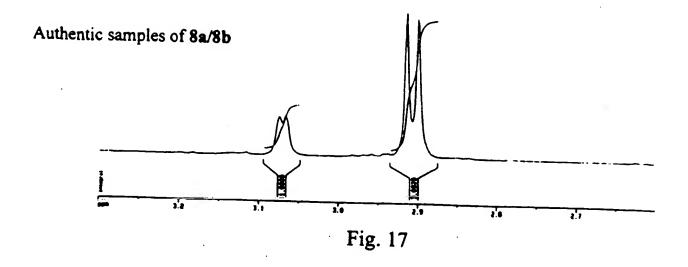


Fig. 15





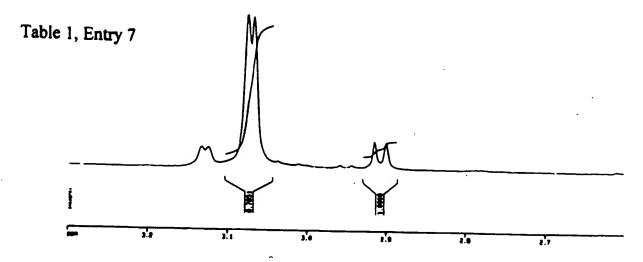


Fig. 18

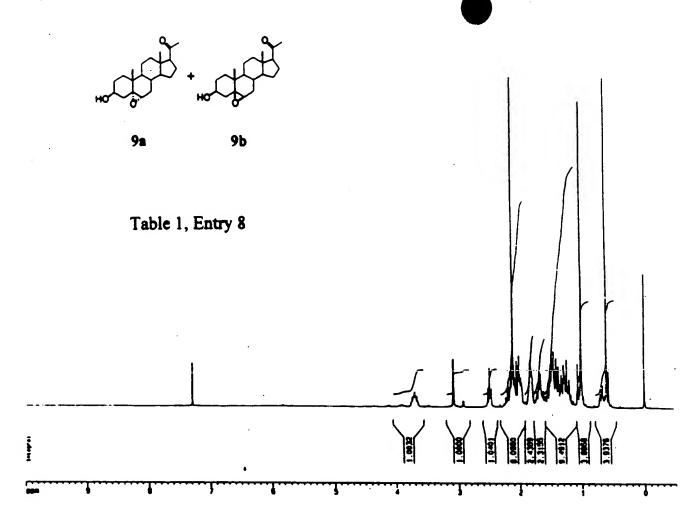
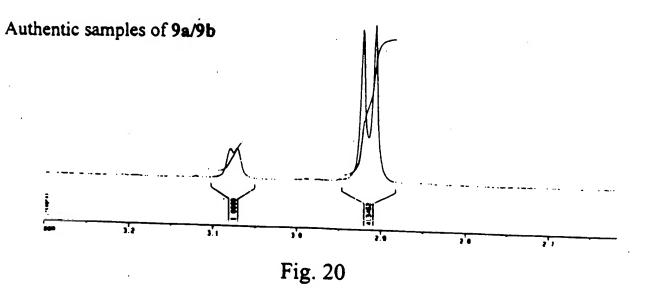


Fig. 19



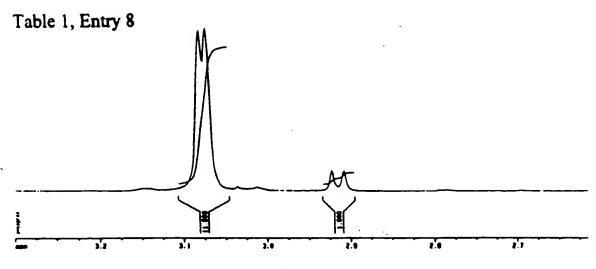


Fig. 21

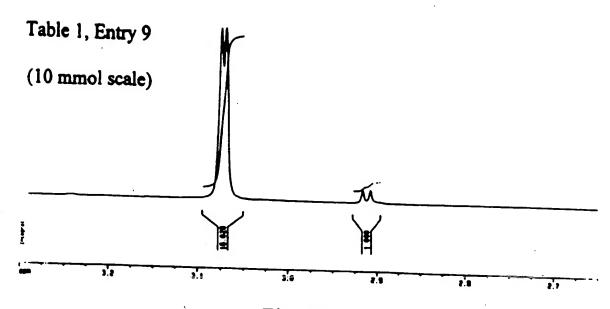


Fig. 22

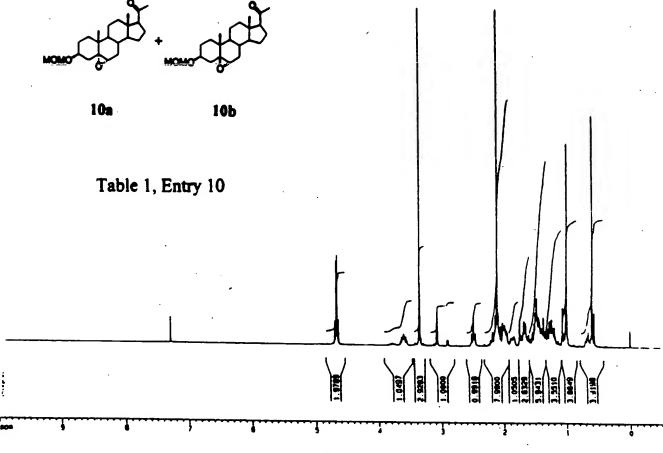


Fig. 23



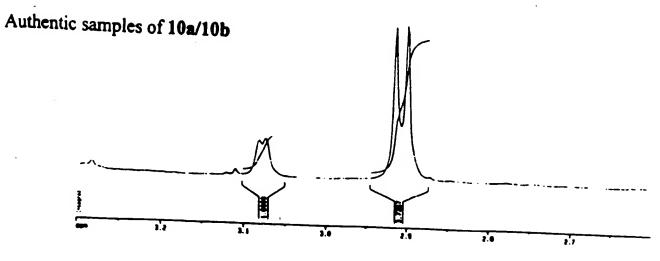


Fig. 24

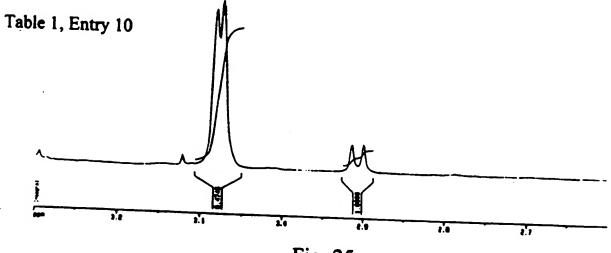
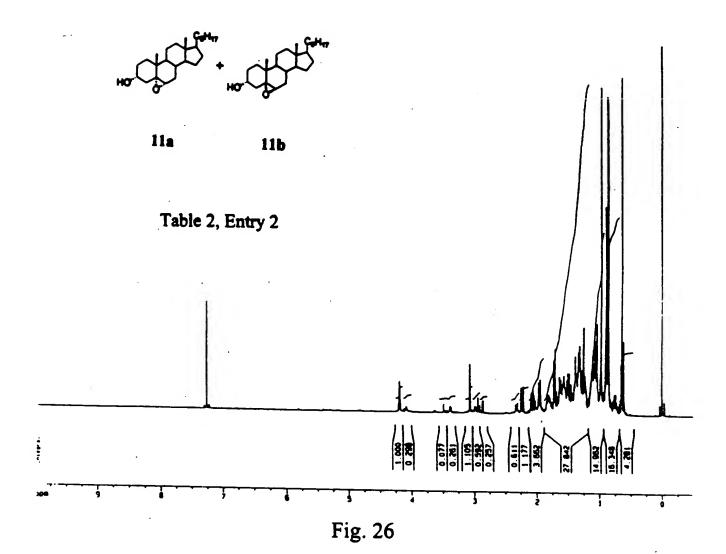
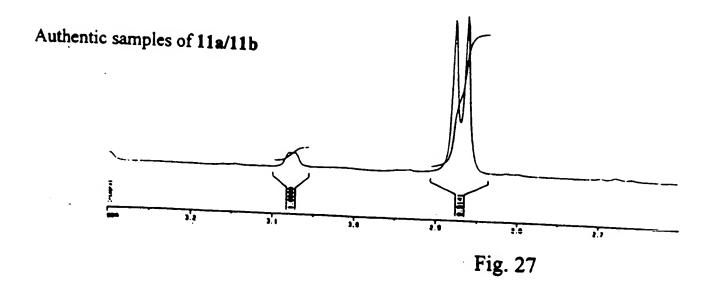
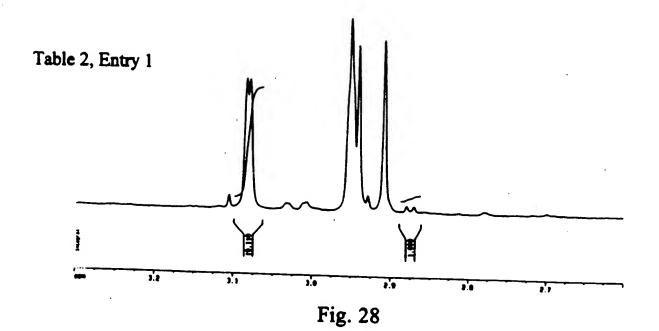
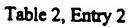


Fig. 25









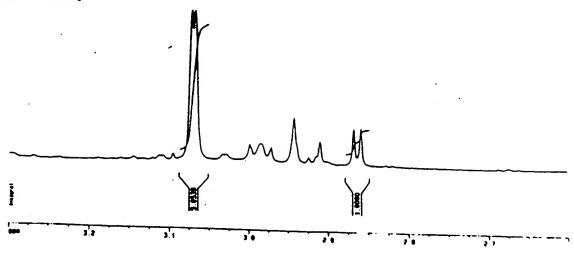


Fig. 29

Table 2, Entry 3

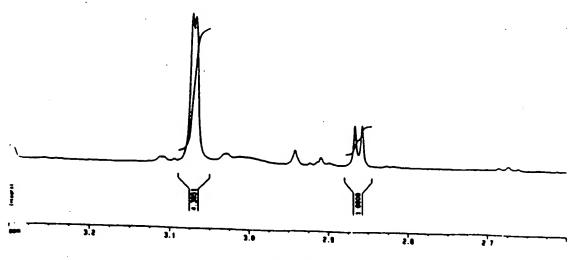
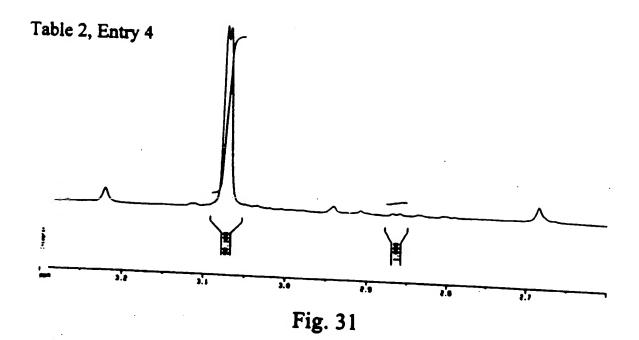


Fig. 30



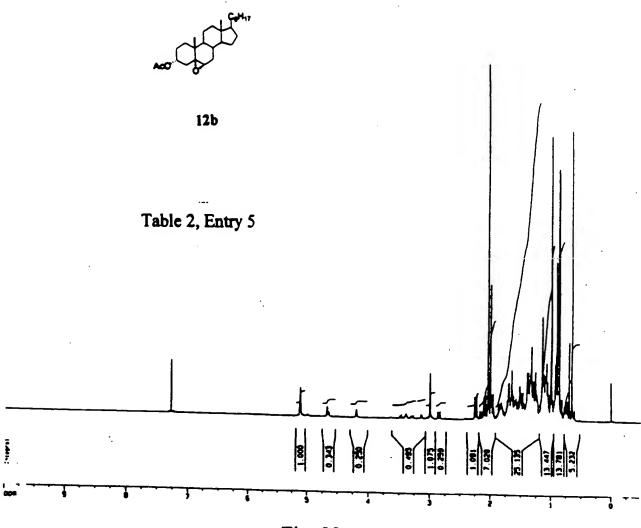
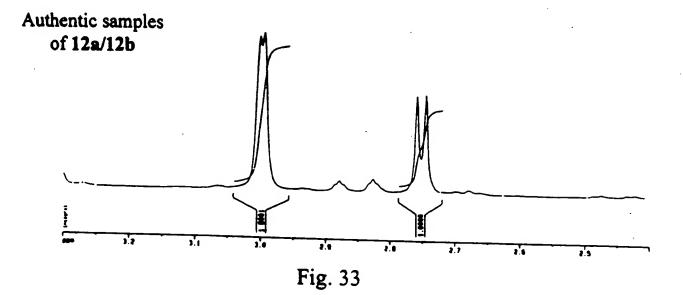
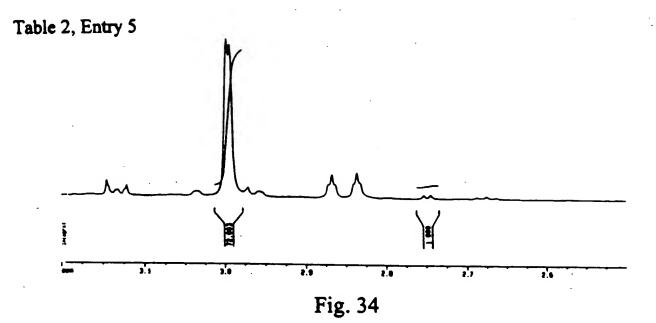


Fig. 32





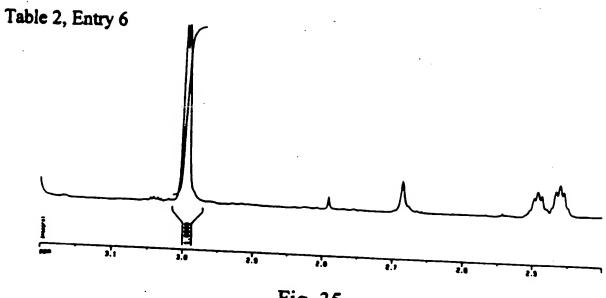


Fig. 35

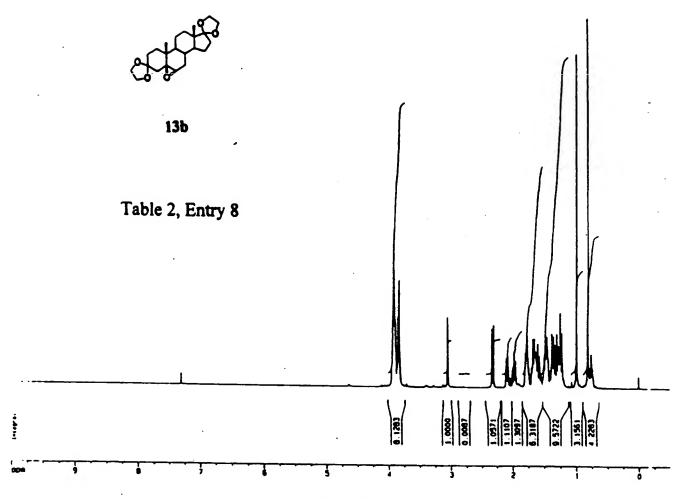
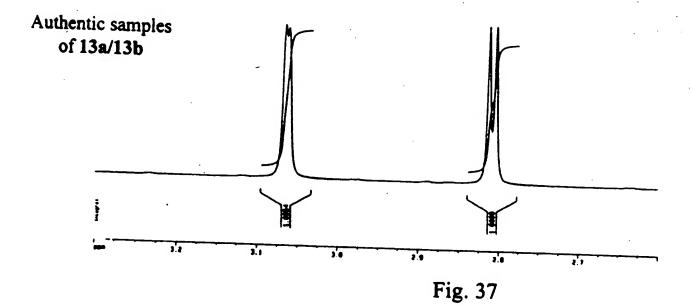
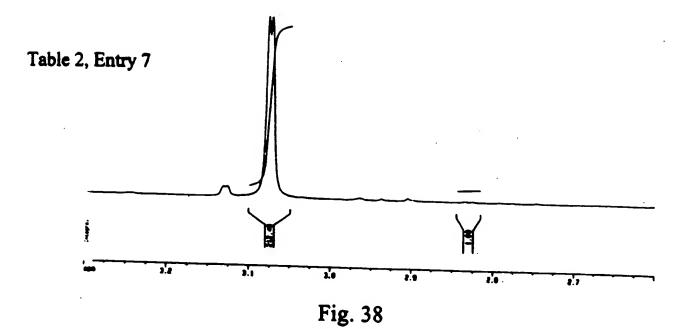
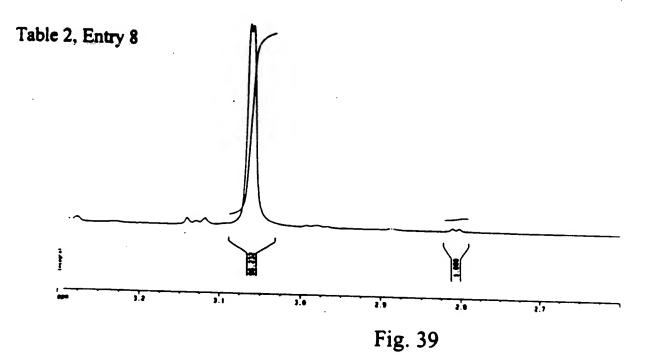
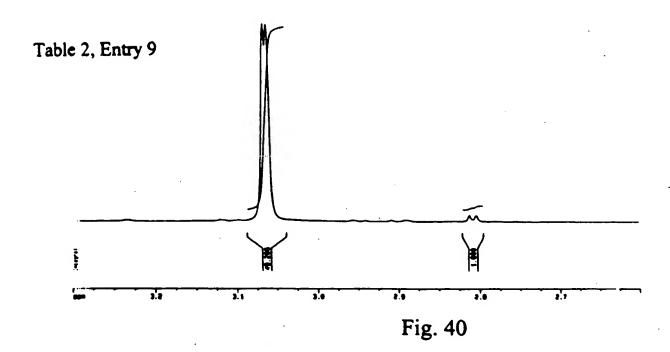


Fig. 36









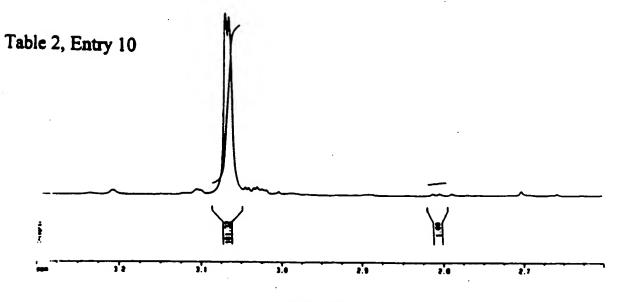


Fig. 41

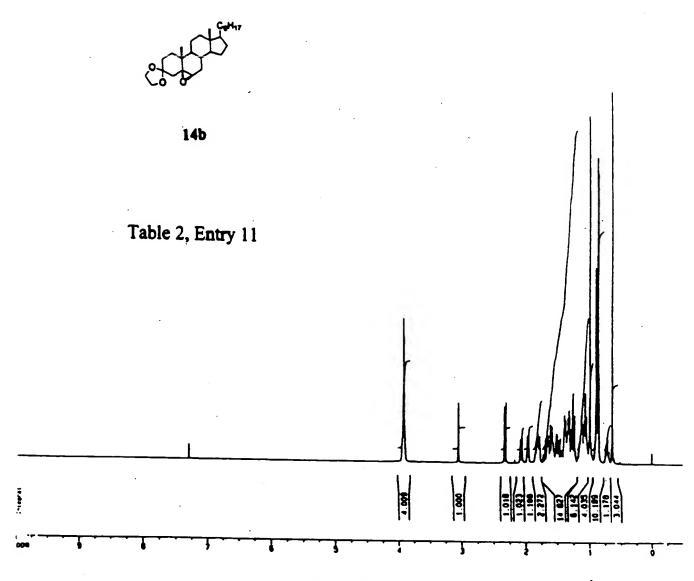


Fig. 42

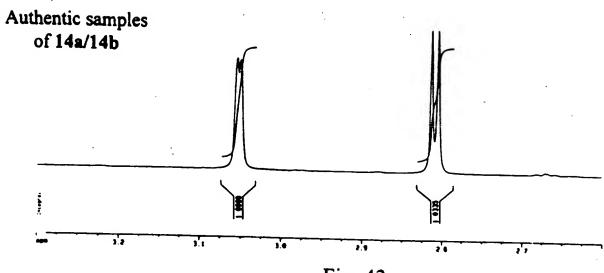
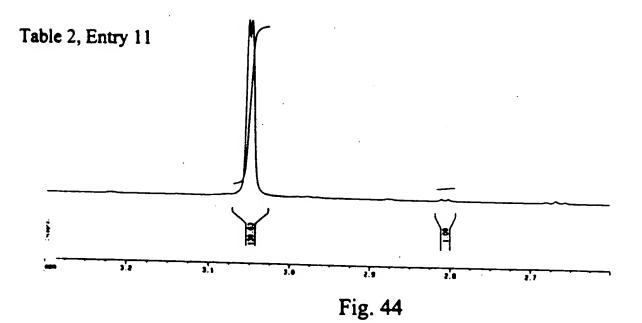
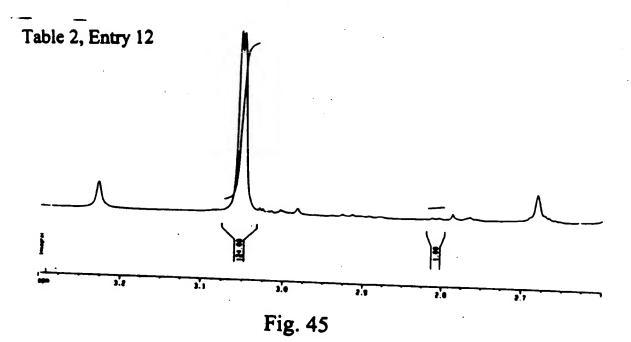


Fig. 43





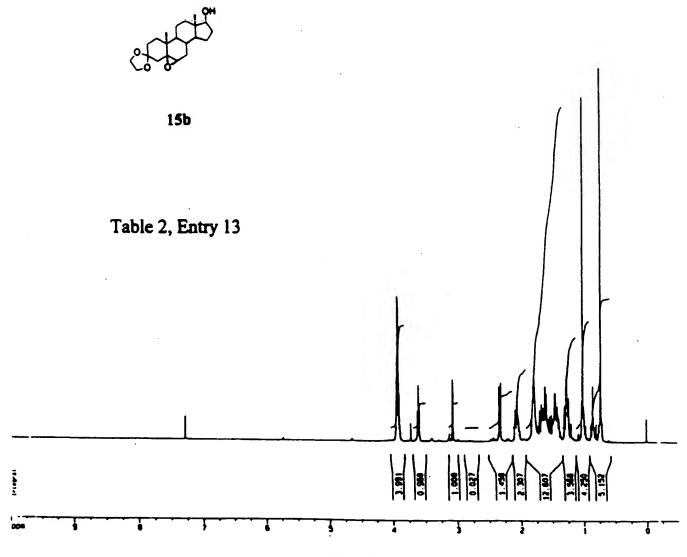
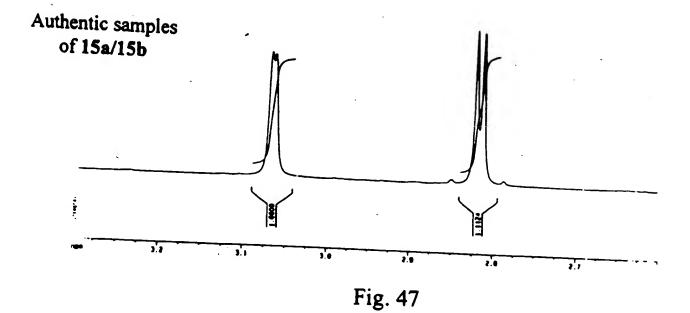
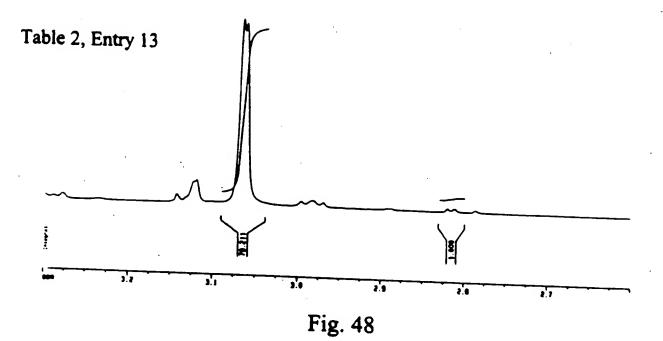
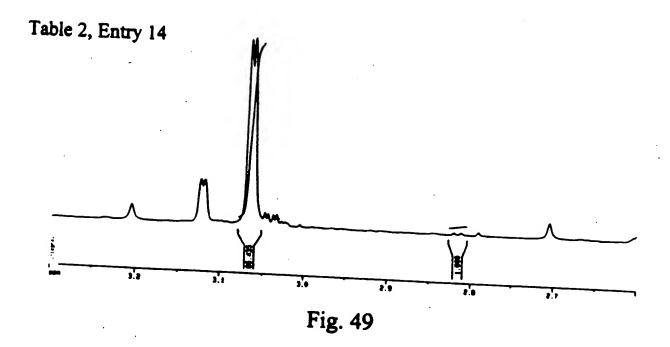


Fig. 46







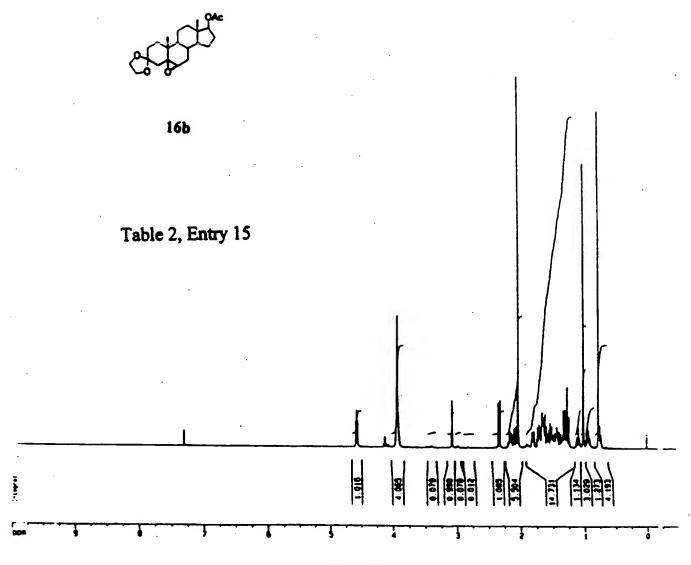


Fig. 50

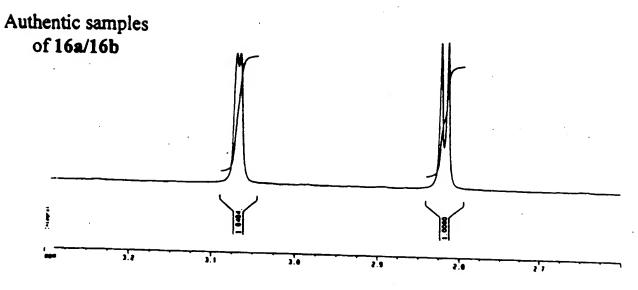


Fig. 51

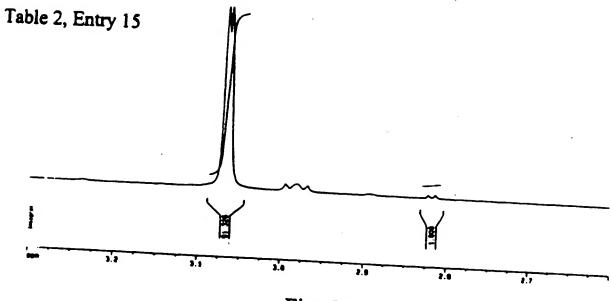
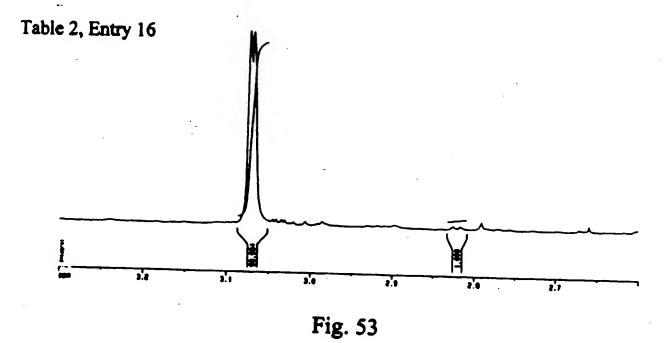


Fig. 52



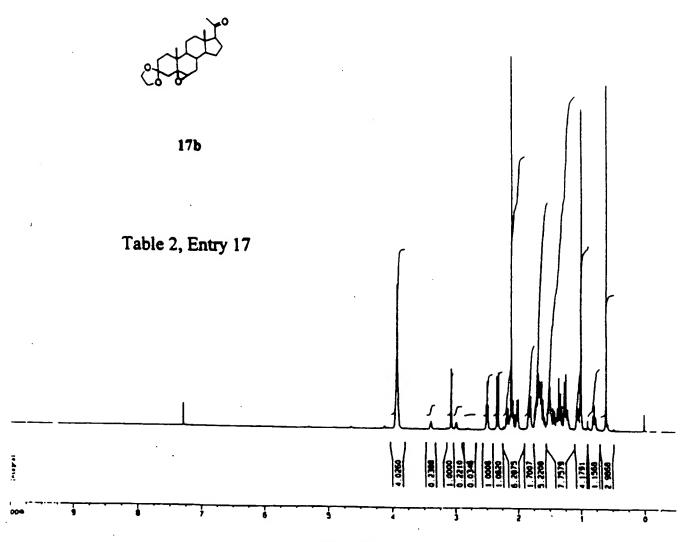


Fig. 54

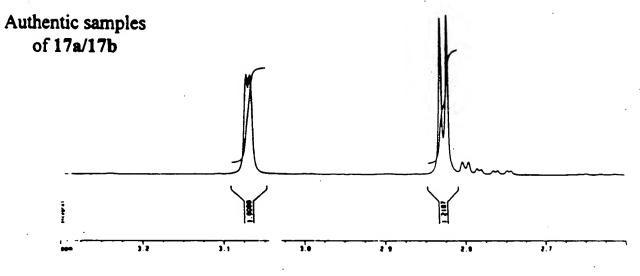


Fig. 55

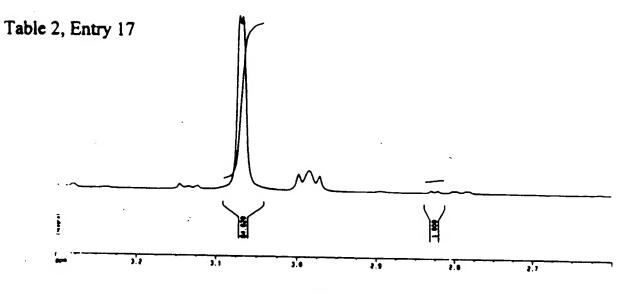
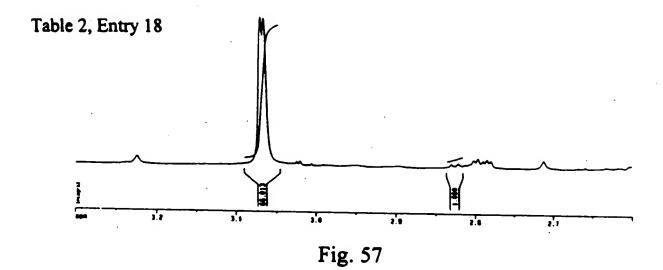
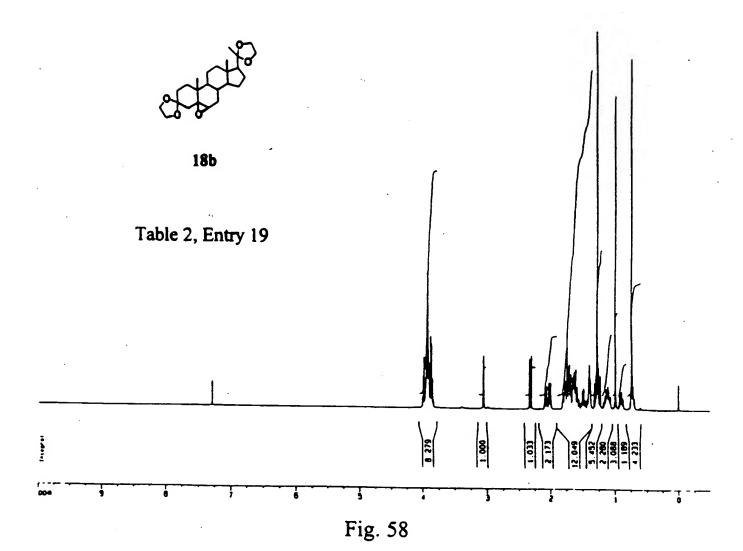


Fig. 56





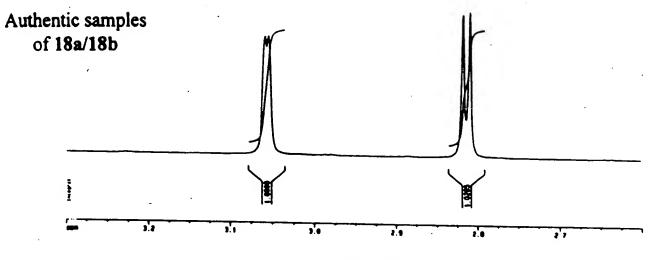
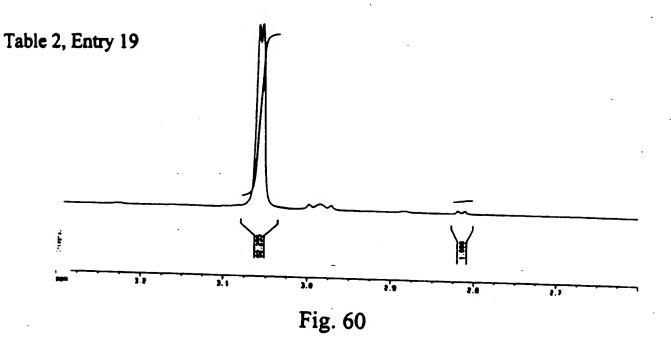
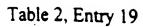


Fig. 59





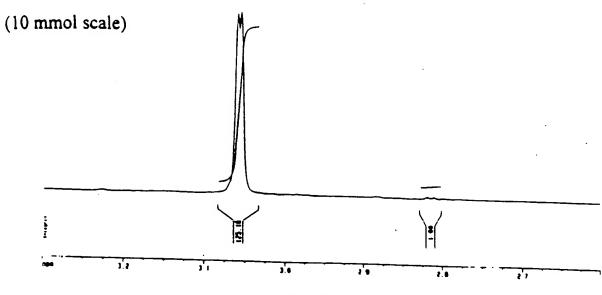
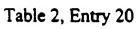


Fig. 61



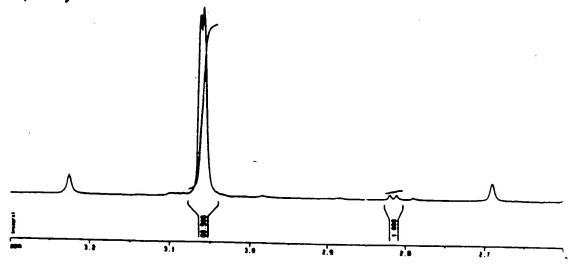


Fig. 62

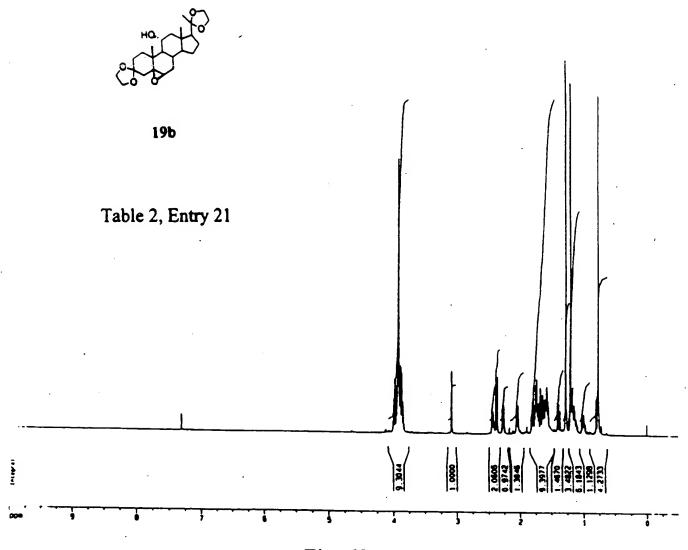


Fig. 63

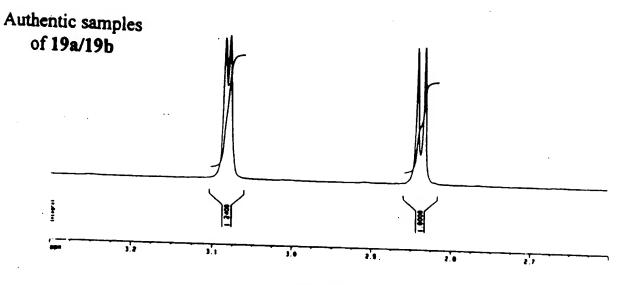
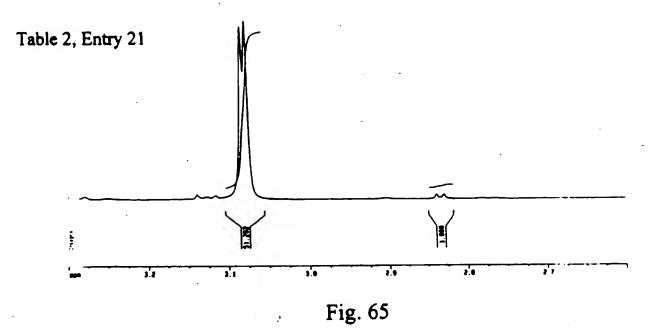


Fig. 64



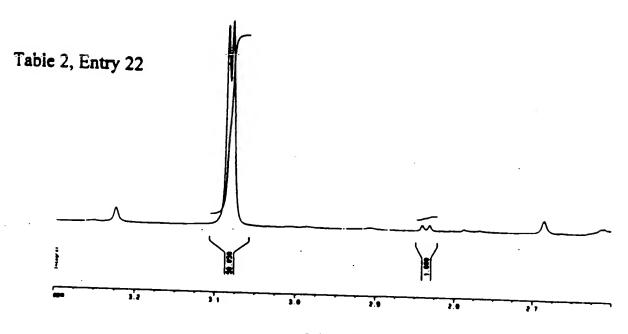


Fig. 66

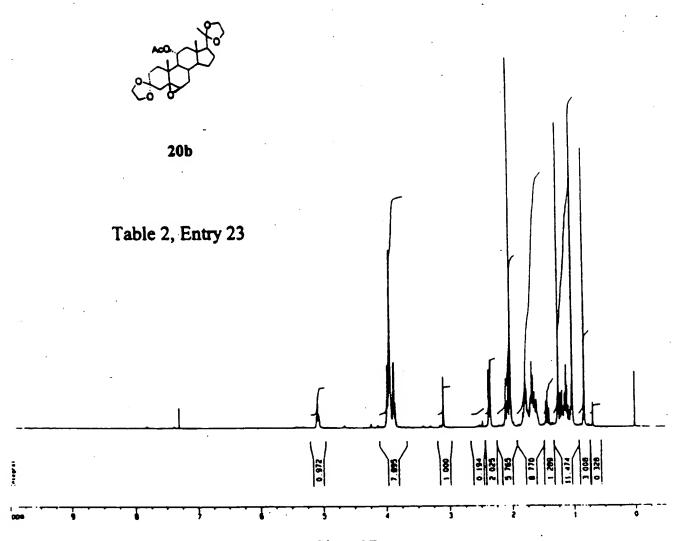


Fig. 67

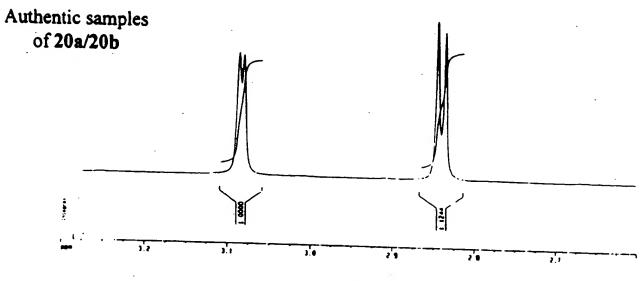


Fig. 68

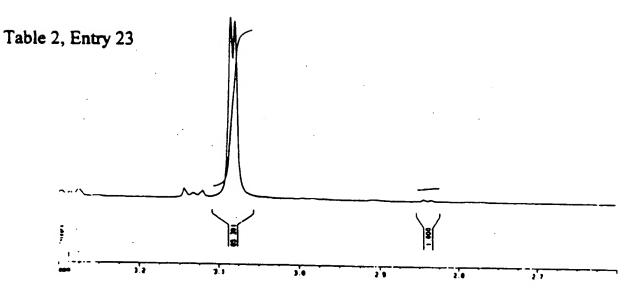


Fig. 69

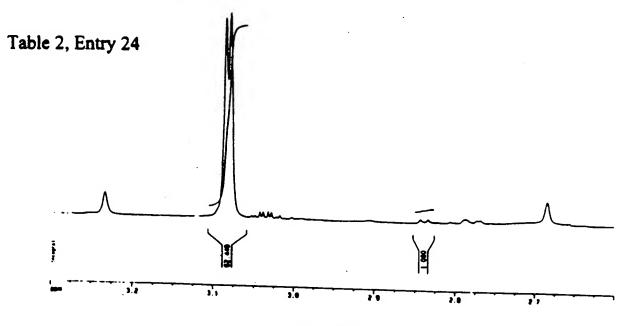


Fig. 70